



Automatic Vial Filling and Bunging Machine HMPL–PRE–VFB



Brief On Machine

The Automatic Premium Vial Filling with Rubber Capping System consists of main structure covered with SS cabinet safety acrylic cover, laminar air flow, in-feed turntable, peristaltic pump filling system, Delran Slate conveyor, out-feed turn table, vibrator bowl & chute for rubber stopper, pneumatic components and electrical panel, AC Drive, PLC & HMI.

Salient Features of Vial Filling & Bunging Machine

The unit is made compact & versatile as per GMP norms	The structure is made out of MS cladding with SS 304
Rigid vibration free construction for trouble free performance	The contact parts such as filling nozzle, bung disc are made of SS316 L

The Pharma grade silicon tubes are used for filling & CIP/SIP	Easy to clean the base of the machine
There is a special feature called PRIME which is useful to suck the filling material from storage tank to nozzle end very quickly. Moreover this facility is useful to clean the filling line (silicon tubes) as well as filling peristaltic pump in both the directions	The machine has a facility of using PRIME function for all the peristaltic pumps together or individual peristaltic pumps also
The process of filling is done by specially designed filling peristaltic pump which can serve the purpose of CIP & SIP	Individual pumps can be adjusted & calibrated for the desired volume – by use of easy to operate PLC
Oil based material can also be run easily without dripping because of specially designed peristaltic pump with the facility of suckback	The each filling head can work independently & hence machine works continuously without sacrificing major production
No change parts are required for different size of vials as well as different filling volume	There is a very less product change over time due to very less usage of mechanical parts such as syringe set, Teflon seal, gear & chain etc
Easy to operate PLC for any kind of volume adjustment or speed adjustment	Synchronized filling system for smooth filling purpose
Specially designed bung oriental bowl & discharge chute with in-built vibrator. The bung oriental bowl & chute are Teflon coated for use of wet bungs	Bungs are hold in the specially designed vacuum bung hold disc & the same disc discharge the bung uniformly on the vial. The bung pressing roller presses the bungs uniformly
The same bunging assembly can also be utilized for half capping	For different heights of vials, the whole assembly can be moved upwards & downwards
Alarm alerts through PLC for "No Vial, Machine Stop" & No Vial, No Bung"	Production counter is given with password protection for daily track report and planning for the same
The faults can be detected on the PLC touch screen HMI and can be attended easily for the same	The machine is supplied with isolated power supply to avoid adverse effect of electric supply
The output speed can be appeared on HMI screen and adjust the same as per appropriate requirements	Very less mechanical adjustment required due to the special design
User friendly and very less maintenance required	Nitrogen facility (Pre or Post) can be provided as an (OPTIONAL)
Unique design of rolling conveyor	Easy loading of vials to in-feed turntable - by loading tray
For smaller vials, the speed of turntable can be set individually	Filling machine with tray to spillage and connection of drain
Conveyor of Filling and cap sealing machine covered with acrylic cover	Most reliable & proven mechanical components such as FESTO make pneumatics & CE certified electrical/electronic such as Bonfiglioli make AC motor, Allen Bradley make drives, PLC & HMI Touch screen, Sensors, MCB's, relay etc

Technical Specification

Model	HMPL-PRE-VFB
Vials Diameter	25 mm to 55 mm
Rubber Bung Size	20 mm to 22 mm
Output Speed	30 to 100 Vials/Minute (Depend upon nature of liquid & size of bottle)
Filling Volume	2 ml to 30 ml
Filling Head	4 / 6 Heads
Working Height	850 ± 50 mm Adjustable
Power Consumption	2.5 KW
Power Supply	3 Phase + Neutral + Earthing/ 415 V AC/ 50Hz
Air Supply	4 to 6 Kg/cm ²
Net Weight	650 Kg Approx.
Dimensions	2700mm (L) x 1500mm (W)x 2000 mm(H) Approx.